EVENTING

File	40
Op-Sys	OS/390, VSE/ESA, BS2000/OSD
Statement	FIND or PROCESS, depending on value in FUNCTION field.
Task	Allows communication between Natural programs or Natural applications. This DDM enables Natural programs to send data to and receive data from other Natural programs, even if the partner program is located on another system running a different operating system. In BS2000/OSD, this view is only available in multi-user mode.

Common Fields for all Operating Systems

Dictionary Field Name	F/L	Mu	DE	Remarks
ERROR-CODE	N3			
ERROR-TEXT	A58			
NODE	N5		D	
NODE-NAME	A16		D	
SYSTEM-MESSAGE-CODE	A10			
FUNCTION	A8		D	Required, Unique.
EVENT-NAME	A8		*	*
MAX-TIME	B4		*	*
NUMBER-OF-WAITERS	N5		*	*
NUMBER-OF-MESSAGES	N5		*	*
MESSAGE-ARRAY	A250	M7	*	*

Additional fields Supported for BS2000/OSD

Dictionary Field Name	F/L	Mu	DE	Remarks
SYSTEM-CODE	A2			

* See description of FUNCTION field.

Relevant Error Codes

Code	Text	OS/390	VSE/ESA	BS2000/OSD
600	Unknown function.	X	X	X
745	Error occurred when executing Eventing			X
809	Subsystem not active.			X
886	Event is in use.	X	X	X
887	Event is already defined.	X	X	X
888	Event name must be specified.	X	X	X
890	Event does not exist.	X	X	X
891	Timeout waiting for event.	X	X	X
894	Enable eventing failed.			X
893	Getmain failed.	X	X	
983	Single user mode not supported by Eventing			X
986	No or not enough space for EVENTING MEMORY POOL			X

Field Descriptions

Which fields are relevant with which statement depends on the FUNCTION specified (see the description of the FUNCTION field, below).

Field Name	Type/Length	Operating System
EVENT-NAME	(A8)	OS/390, VSE/ESA, BS2000/OSD

Name of the event.

Field Name	Type/Length	Operating System
FUNCTION	(A8)	OS/390, VSE/ESA, BS2000/OSD

Specifies the action to be performed. Possible values:

Value	Explanation
DEFINE	Define an event
DELETE	Delete an event
LIST	List events
POST	Post event
RECEIVE	Receive messages from event
SEND	Send message to event
WAIT	Wait for post of event (or timeout)
SENDPOST	Both SEND and POST.

Matrix of statements, fields and functions:

Key: R=Required, U=Unique, D=Descriptor

PROCESS Statement	Functions				
Fields	DEFINE	DELETE	SEND	WAIT	POST
EVENT-NAME	RUD	RUD	RUD	RUD	RUD
MAX-TIME				UD	
MESSAGE-ARRAY			RUD		

FIND Statement	Functions	
Fields	RECEIVE	LIST
EVENT-NAME	RUD	D
NUMBER-OF-WAITERS		D
MESSAGE-ARRAY	D	
NUMBER-OF-MESSAGES		D

Field Name	Type/Length	Operating System
MAX-TIME	(B4)	OS/390, VSE/ESA, BS2000/OSD

Maximum time (in seconds) you want to wait for a message to arrive. If no message arrives within this time you will get ERROR-CODE 891 (timeout).

Field Name	Type/Length	Operating System
MESSAGE-ARRAY	(A250) M7	OS/390, VSE/ESA, BS2000/OSD

Array of maximum 7 messages for SEND/RECEIVE functions.

Field Name	Type/Length	Operating System
NUMBER-OF-MESSAGES	(N5)	OS/390, VSE/ESA, BS2000/OSD

Number of messages waiting to be received.

Field Name	Type/Length	Operating System
NUMBER-OF-WAITERS	(N5)	OS/390, VSE/ESA, BS2000/OSD

Number of tasks waiting to be posted.